

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 63112646  
PUBLICATION DATE : 17-05-88

APPLICATION DATE : 29-10-86  
APPLICATION NUMBER : 61255835

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INT.CL. : C08L 51/04 //(C08L 51/04 , C08L 83:04 )

TITLE : HIGH-GLOSS, IMPACT-RESISTANT POLYSTYRENE RESIN COMPOSITION

ABSTRACT : PURPOSE: To form an impact-resistant polystyrene resin compsn. which is inexpensive, has well-balanced properties with respect to qualittes such as colorability, impact strength and rigidity and gives molded forms having excellent appearances, by combining a rubber-modified polystyrene having a specified microstructure with a polydimethylsiloxane.

CONSTITUTION: This impact-resistant polystyrene resin compsn. contains a rubber-modified polystyrene (A) and 0.005–0.8wt% (based on the amount of the compsn.) poly-dimethylsiloxane (B). Said polystyrene is one wherein a rubbery polymer in the form of particles is dispersed and the dispersed particles have such a particle size distribution that they have two peaks consisting of fine particle part and large particle part wherein the fine particle part has an average particle size of 0.1–0.6 $\mu$  and the large particle part has an average particle size of 0.7–2.0 $\mu$ . 20–95wt% rubber in the compsn. is composed of fine particles and 5–80wt% thereof is composed of large particles.

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